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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/16/2002

RAY G WILSON 5645 QUEMAZON LOS ALAMOS, NM 87544 EXAMINER
SOLAK, TIMOTHY P

ART UNIT

CLASS-SUBCLASS

3746

417-319000

DATE MAILED: 12/16/2002

-	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	09/334,208	06/15/1999	JEFFREY DAVIS	DAVIS100	5079	

TITLE OF INVENTION: METHOD AND APPARATUS FOR CONTROLLING A PUMPING UNIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	03/17/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents Washington, D.C. 20231 Fax (703)746-4000

appropriate All further con	respondence including the selow or directed otherwis	Patent advance orders	and notification of a	naintenance fee	equired). Blocks I through 4 ses will be mailed to the current ress; and/or (b) indicating a separation of the current ress; and/or (b) indicating a separation of the current research.	correcpondence address a
	E ADDRESS (Note: Legibly mark: 90 12/16/2002 J	up with any corrections or use B	Fo ac fo	ee(s) Transmit companying parmal drawing, r	te of mailing can only be used for tal. This certificate cannot apers. Each additional paper, s must have its own certificate of n Certificate of Mailing or Tran-	be used for any other such as an assignment or nailing or transmission.
LOS ALAMOS, N	VI 0/344		U er tn	nited States Pos ivelope address ansmitted to the	that this Fee(s) Transmittal is stal Service with sufficient posta sed to the Box Issue Fee address USPTO, on the date indicated b	ge for first class mail in an above, or being facsimile below.
						(Depositor's name
						(Signature
			<u></u>			(Date
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/334,208 TITLE OF INVENTION: M	06/15/1999		JEFFREY DAVIS		DAVIS100	5079
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICA		TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$	U	\$640	03/17/2003
EXAMIN		ART UNIT	CLASS-SUBCLAS	3		
SOLAK, TIM	ЮТНҮ Р	3746	417-319000	<u>-</u>		
1. Change of correspondent CFR 1.363).		`	2. For printing on the names of up to or agents OR, alte	3 registered p	atent attorneys .	
☐ Change of corresponde Address form PTO/SB/12	2) attached.		single firm (havin	g as a membe	er a registered	
☐ "Fee Address" indication PTO/SB/47; Rev 03-02 on Number is required.	on (or "Fee Address" Indic or more recent) attached. U	ation form se of a Customer	attorney or agent) registered patent at is listed, no name w	torneys or agen		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print or ty	pe)	-	
PLEASE NOTE: Unless at been previously submitted (A) NAME OF ASSIGNEE	to the OSF 1 O of 18 being s	submitted under separate	Il appear on the pater cover. Completion of SIDENCE: (CITY an	this form is NO	assignee data is only appropriat OT a substitute for filing an assig COUNTRY)	e when an assignment has inment.
Please check the appropriate	assignee category or categ	ories (will not be printed	on the patent)	□ individual	☐ corporation or other private gi	roup entity 🚨 government
4a. The following fee(s) are	enclosed:	•	ment of Fee(s):		-	<u> </u>
☐ Issue Fee			eck in the amount of nent by credit card. For			
☐ Publication Fee☐ Advance Order - # of Co	onies	The (Commissioner is here	by authorized b	by charge the required fee(s), or c	credit any overnayment to
		Deposit	Account Number		(enclose an extra copy of this asly paid issue fee to the application	form).
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	registered attorney or a cords of the United States I	gent; or the assignee or atent and Trademark Of	t other party in			
This collection of informat obtain or retain a benefit the application. Confidentiality estimated to take 12 minute completed application for case. Any comments on suggestions for reducing the Patent and Trademark Offino	" domington, DC 20251.					·
Under the Paperwork Recollection of information ur	luction Act of 1995, no less it displays a valid ON	persons are required to 1B control number.	o respond to a			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/334,208 06/15/1999		JEFFREY DAVIS	DAVIS100	5079	
7590 12/16/2002			EXAMIN	ER	
RAY G WILSON			SOLAK, TIMOTHY P		
5645 QUEMAZON LOS ALAMOS, N			ART UNIT	PAPER NUMBER	
			3746		
			DATE MAILED: 12/16/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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75	590 12/16/2002		EXAMIN	ER
RAY G WILSON 5645 QUEMAZON			SOLAK, TIM	ОТНҮ Р
LOS ALAMOS, N			ART UNIT	PAPER NUMBER
UNITED STATES			3746	
			DATE MAIL ED. 12/16/2002	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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		HCT 17/1
	Application No.	Applicant(s)
N-4: f Allamakilika	09/334,208	DAVIS, JEFFREY
Notice of Allowability	Examiner	Art Unit
	Timothy P. Solak	3746
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this app i) or other appropriate communication RIGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
 This communication is responsive to <u>the decision from the</u> The allowed claim(s) is/are <u>2-5,7 and 10-13</u>. 	e Board of Appeals	
The drawings filed on are accepted by the Examin	er.	
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All. b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	e been received in Application No	
3. Copies of the certified copies of the priority do	ocuments have been received in this i	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority to		onal application).
(a) The translation of the foreign language provisional		
6. Acknowledgment is made of a claim for domestic priority to	under 35 U.S.C. §§·120 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of		
7. A SUBSTITUTE OATH OR DECLARATION must be subi INFORMAL PATENT APPLICATION (PTO-152) which gives rea		
8. CORRECTED DRAWINGS must be submitted.		
(a) ⊠ including changes required by the Notice of Draftspe	rson's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☒ to Paper No. 2.	·	·
(b) including changes required by the proposed drawing	correction filed, which has be	een approved by the Examiner.
(c) including changes required by the attached Examine		
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape		
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR		
Attachment(s)		
1 ☐ Notice of References Cited (PTO-892)	2 Notice of Informa	l Patent Application (PTO-152)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)	4⊠ Interview Summa	ary (PTO-413), Paper No. <u>17</u> .

U.S. Patent and Trademark Office

of Biological Material

5 Information Disclosure Statements (PTO-1449), Paper No. ____.

7 Examiner's Comment Regarding Requirement for Deposit

6⊠ Examiner's Amendment/Comment

9
☐ Other

8 Examiner's Statement of Reasons for Allowance

Application/Control Number: 09/334,208

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ray Wilson on 12/05/2002.

The application has been amended as follows:

In the Claims:

Claims 1,6 and 8-9 have been canceled.

In Claim 2, line 1, "Claim 1" has been deleted and --Claim 3-- substituted therefore.

In Claim 2, line 2, "comprising" has been deleted and --consisting of-substituted therefore.

Claim 3 has been amended as follows:

3. A method for reducing the pumping duty cycle of a pump assembly

associated with a pumping gas well comprising the steps of:

continuously running an engine;

connecting the engine with a pump assembly through a clutch assembly having a pneumatically inflatable bladder for connecting a hub

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Application/Control Number: 09/334,208

Art Unit: 3746

of the clutch with a clutch plate to transmit rotary motion from the engine to the pump assembly;

determining a selected event to actuate the clutch to connect the engine with the pump assembly; and

providing a pressurized gas on the occurrence of the selected event to inflate the bladder to connect the pump assembly with the engine to remove liquid from the gas well to maintain an inflow of hydrocarbons from a producing formation;

[A method according to Claim 1,] where the pressurized gas is supplied from natural gas exiting the gas well.

In Claim 4, line 2/"comprising" has been deleted and --consisting of--

substituted therefore.

In Claim 5, line 1, "Claim 1/" has been deleted and --Claim 3-- substituted therefore.

In Claim 7, line 1, "Claim 1" has been deleted and --Claim 3-- substituted therefore.

Claim 10 has been amended as follows:

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10: A pumping assembly for maintaining hydrocarbon production from a gas well, comprising:

a pumping assembly for pumping liquid from the gas well;

an engine for driving the pumping assembly;

a pneumatic clutch assembly having a pneumatically inflatable bladder for connecting a hub of the clutch with a clutch plate to transmit rotary motion from the engine to the pump assembly; and

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a control unit for inflating the bladder when needed to pump liquid from the gas well to maintain hydrocarbon production from the well while enabling the engine to run continuously;

[A pumping assembly according to Claim 9,] wherein the control unit connects gas from the well to the pneumatic clutch for inflating the bladder.

In Claim 12, line 1, "Claim 9" has been deleted and --Claim 10-- substituted therefore.

Comments

The claims have been renumbered as follows for allowance. The following table contains the original claim number with the new corresponding claim number.

OLD	NEW	OLI	NEW	O	LD	NEW
1	canceled	6	canceled		11	2
2	6	7	9		12	3
3	5	8	canceled	-	13	4
4	7	9	canceled	-		
5	8	10) 1			

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy P. Solak whose telephone number is 703-308-6197. The examiner can normally be reached on Monday through Thursday from 8am to 6pm.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 703-308-0102. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

CHARLES G. FREAY
PRIMARY EXAMINER

December 5, 2002

